

Communication and Radar Laboratory

Last Page number of the Inventory = 760
 Last Indent Voucher entry made = 100 / 30-03-2010 (CRT-44,45)
 (Last Updated on 16-05-2011)

1. Oscilloscopes (page 601-607)

S.No.	Inv. No.	Specifications
1.	CRO -1	Philips 15 MHz, PM 3206 (S.No. 28807)
2.	CRO - 3	Aplab 20 MHz Model 3132 (398 / 411)
3.	CRO - 4	Aplab 20 MHz Model 3132 (398 / 412)
4.	CRO - 5	Philips 20 MHz, PM 3213 (BQ-869)
5.	CRO - 6	Philips 20 MHz, PM 3213 (BQ-903)
6.	CRO - 7	Philips 20 MHz, PM 3213 (BQ-1770)
7.	CRO - 8	Philips 20 MHz, PM 3213 (BQ-1779)
8.	CRO - 9	Philips 100 MHz, PM 3065 (S.No. 1238)
9.	CRO - 10	Scientech 20 MHz Model ST-221
10.	CRO – 11	Aplab 100 MHz (2-Ch, 4-Trace) Model 3937R
11.	CRO – 12	Aplab 30 MHz D / T Model 3706C (0220175)
12.	CRO – 13	Systronics 20 MHz D / T Model 4023 (S.No. 026)
13.	CRO – 14	Systronics 20 MHz D / T Model 4023 (S.No. 049)
14.	CRO – 15	Scientech 20 MHz / 8-Ch Logic Scope
15.	CRDS –3	Kenwood 20 MHz D / T Model CS – 1021 (Also noted at #3 of DSS)
16.	CRR – 3	Hameg 20 MHz Digital Storage, HM – 205 – 3 (Also noted at #3 of Radar)
17.	CRO-16	Scientech 20 MHz CRO with FG, Scientech 201 FG
18.	CRO-17	Scientech 20 MHz CRO with FG, Scientech 201 FG
19.	CRO-18	HAMEG Digital Storage Oscilloscope, HM-107
20.	CRO-19	60 MHz, 2-Ch. Digital Storage Oscilloscope, Tektronix
21.	CRO-20	60 MHz, 2-Ch. Digital Storage Oscilloscope, Tektronix
22.	CRO-21	20 MHz Dual Ch. CRO, Trinity Model MOS-620A
23.	CRO-22	20 MHz Dual Ch. CRO, Trinity Model MOS-620A
24.	CRO-23	Tektronix 60 MHz DSO model TDS-2002B
25.	CRO-24	Tektronix 60 MHz DSO model TDS-2002B
26.	CRO-25	Aplab 25 MHz DSO model 36025
27.	CRO-26	Aplab 25 MHz DSO model 36025
28.	CRO-27	Trinity 25 MHz DSO model TDSO-5025
29.	CRO-28	Trinity 25 MHz DSO model TDSO-5025
30.	CRO-29	Trinity 25 MHz DSO model TDSO-5025

2. Signal Generators (page 621-627)

S.No.	Inv. No.	Specifications
1.	CRG – 1	Pacific 1 MHz Pulse Generator, PPG – 101
2.	CRG – 2	Pacific 1 MHz Pulse Generator, PPG – 101
3.	CRG – 7	Sanwa 30 MHz AF–RF Signal Generator, SO-8
4.	CRG – 11	Systronics Function Generator, Model 1013
5.	CRG – 12	Aplab 72 MHz SSG, Model 2021 D
6.	CRG – 13	Aplab Function / Pulse Generator, Model 2019
7.	CRG – 14	Aplab Low-distortion Sine/Sq. Gen, Model 2016
8.	CRG – 15	Pacific Function Generator Model FG-18
9.	CRG – 16	Pacific Function Generator Model FG-18
10.	CRG – 17	Pacific Function Generator Model FG-18
11.	CRG – 18	Pacific Function Generator Model FG-18
12.	CRG – 19	Pacific 1 MHz Pulse Generator, PPG – 101
13.	CRG – 20	Pacific 1 MHz Pulse Generator, PPG – 101
14.	CRG – 21	Scientech 1 MHz Function Gen. Model ST-4060
15.	CRG-22	Scientific 20 MHz Pulse Generator, HM-5035 (S. No. 3021138)
16.	CRG-23	Scientific 20 MHz Pulse Generator, HM-5035 (S.No. 3081180)
17.	CRG-24	Scientific 20 MHz Pulse Generator, HM-5035 (S.No 3081182)
18.	CRG-25	Scientech 2MHz AM / FM Function / Pulse Generator, ST-4062 (S. No. 0803225)
19.	CRG-26	Scientech 2MHz AM / FM Function / Pulse Generator, ST-4062 (S. No. 0803235)
20.	CRG-27	Scientech 2MHz AM / FM Function / Pulse Generator, ST-4062 (S. No. 0803242)
21.	CRG-28	Scientech 2MHz AM / FM Function / Pulse Generator, ST-4062 (S. No. 0803284)
22.	CRG-29	Aplab 2 MHz Function Generator Model FG 3 MD
23.	CRG-30	Aplab 2 MHz Function Generator Model FG 3 MD
24.	CRG-31	Aplab 110 MHz AM / FM Signal Generator, Model SG-01
25.	CRG-32	Caddo 2 MHz AM/FM Function Generator model 4062 (68/18-12-08)
26.	CRG-33	Scientific 5 MHz Function Generator model 5030-5 (69/18-12-08)
27.	CRG-34	Scientific 5 MHz Function Generator model 5030-5 (69/18-12-08)
28.	CRG-35	31-bit PN Sequence Generator for baseband communication (97/03-03-10)
29.	CRG-36	31-bit PN Sequence Generator for baseband communication (97/03-03-10)

3. Meters (page 641-644)

S. No.	Inv. No.	Specifications
1	CRM-1	Simpson Multimeter Model RS 260
2	CRM-2	Simpson Multimeter Model RS 260
3	CRM-3	Pacific L-C-R Meter Model PLCR-8C
4	CRM-4	Aplab DMM Model 1085
5	CRM-5	Aplab DMM Model 1085
6	CRM-6	Sanwa Multimeter Model YX-360TR
7	CRM-7	Sanwa Multimeter Model 300-BTR
8	CRM-8	Scientific DMM Model 4011
9	CRM-9	Scientific DMM Model 4011
10	CRM-10	Scientific Distortion Meter Model HM 5027
11	CRM-11	AE make 4"X4" Milli-ammeter (1.0 ma DC)
12	CRM-12	AE make 4"X4" Milli-ammeter (1.0 ma DC)
13	CRM-13	AE make 4"X4" Micro-ammeter (100 μ A DC)
14	CRM-14	AE make 4"X4" Micro-ammeter (100 μ A DC)
15	CRM-15	AE make 4"X4" Micro-ammeter (500 μ A DC)
16	CRM-16	AE make 4"X4" Micro-ammeter (500 μ A DC)
17	CRM-17	AE make 4"X4" Micro-ammeter (500 μ A DC)
18	CRM-18	AE make 4"X4" Micro-ammeter (500 μ A DC)
19	CRM-19	Protec Digital Multimeter with PC Interface, Protec Model 506
20	CRM-20	Aplab 3.5 digit DMM model M2005
21	CRM-21	Aplab 3.5 digit DMM model M2005
22	CRM-22	Milli-ammeter 200 mA, AE make (191/21-11-07)
23	CRM-23	Milli-ammeter 500 mA, AE make (191/21-11-07)
24	CRM-24	Ammeter 10 Amps. AC, (191/21-11-07)
25	CRM-25	Voltmeter 300 Volts AC, (191/21-11-07)

4. Power Supplies (page 661-663)

S.No.	Inv. No.	Specifications
1	CRP-1	Aplab Multi-output DC P.S. Model 7711
2	CRP-2	Aplab Multi-output DC P.S. Model 7711
3	CRP-3	Aplab Multi-output DC P.S. Model 7711
4	CRP-4	H. Powertronix 0.5 KVA UPS
5	CRP-5	H. Powertronix Multi-output DC Power Supply
6	CRP-8	H. Powertronix 1.0 KVA UPS
7	CRP-9	Scientific Multiple Power Supply, Model ST-4074 (0803311)
8	CRP-10	Scientific Multiple Power Supply, Model ST-4074 (1003353)
9	CRP-11	Scientific Multiple Power Supply, Model ST-4074 (1003355)
10	CRP-12	Scientific Multiple Power Supply, Model ST-4074 (1003356)
11	DRS-UPS-3	Nexus 5-KVA UPS with 15 nos of Exide Powersafe 12-V/42-AH SMF Batteries
12	DRS-UPS-4	Nexus 2-KVA offline UPS with 02 nos of 12-V/65-AH SMF Batteries
13	DRS-UPS-5	Nexus 2-KVA offline UPS with 02 nos of 12-V/65-AH SMF Batteries
14	DRS-UPS-6	Elnova 1-KVA UPS with 02 nos of Exide MHD-600 Batteries (acid)

5. Counters / Timers (page 671)

S.No.	Inv. No.	Specifications
1	CRCT-1	Aplab 100 MHz Counter Model 1116 (236/20-04-89)
2	CRCT-2	Aplab 100 MHz Counter Model 1116 (236/20-04-89)

6. Optical Fiber Kits (page 681)

S.No.	Inv. No.	Specifications
1	CRF-1	Comptech F. O. Kit Mode FOCE-01
2	CRF-2	Comptech F. O. Kit Mode FOCE-01
3	CRF-3	Fiber Optic Communication Kit, Trinity Model TMS-FO1304
4	CRF-4	Fiber Optic Power Meter, Trinity Model MX2024B

7. Digital Switching System (page 700)

S.No.	Inv. No.	Specifications
1	CRDS-1	Main Unit with Accessories
2	CRDS-2	Computer Program
3	CRDS-3	Kenwood 20 MHz CRO Model CS – 1021
4	CRDS-4	Mono Head Phone

8. Spectrum Analyzer (page 706)

S.No.	Inv. No.	Specifications
1	CRSA-1	HAMEG 1 GHz Spectrum Analyzer model HM-5014

9. Radar Systems (page 710)

S.No.	Inv. No.	Specifications
2	CRR-1	Doppler's Shift Radar (E15R)
3	CRR-2	Pulsed Radar (E15S)
4	CRR-3	Digital Storage Oscilloscope Model CE1E (also noted at s. no. 16, Item 1)

10. Personal Computer (page 730-734)

S.No.	Inv. No.	Specifications
1.	CRCP-1 (b)	Fujitsu Dot-matrix Printer DL-3400
2.	CRCP-1 (c)	14" Monochrome Monitor
3.	CRCP-2	PC: Intel P4, 2.4 GHz, 256 MB DDR-RAM
4.	CRCP-3	PC: Intel P4, 2.4 GHz, 256 MB DDR-RAM
5.	CRCP-4	PC: Intel P4, 2.4 GHz, 256 MB DDR-RAM
6.	CRCP-5	PC: Intel P4, 2.4 GHz, 256 MB DDR-RAM
7.	CRCP-6	Hp deskjet 5160 color printer
8.	CRCP-8	Iomega External CD Writer
9.	CRCP-9	Hp scanjet3670 Scanner
10.	CRCP-10	Hp LaserJet 1015
11.	CRCP-11	ELNOVA 600 VA UPS Model T - 605
12.	CRCP-12	Insala Vacuum Cleaner
13.	CRCP-13	Pentium-4 IBM Intel core 2 Duo 2.4 GHz, 1 GB RAM, 160 GB HDD, 19" TFT monitor, DVD-writer (66 / 08-12-08)
14.	CRCP-14	Pentium-4 IBM Intel core 2 Duo 2.4 GHz, 1 GB RAM, 160 GB HDD, 19" TFT monitor, DVD-writer (66 / 08-12-08)
15.	CECT-18	Compaq Presario 3600N Intel PC 1.5 GHz, 256 MB SD-RAM, 40 GB HDD, 1.4 MB FDD, 48-x CD-ROM., 10/1000 ethernet card with 15" TFT monitor (299 / 30-03-02)
16.	CECT-19	Compaq Presario 3600N Intel PC 1.5 GHz, 256 MB SD-RAM, 40 GB HDD, 1.4 MB FDD, 48-x CD-ROM., 10/1000 ethernet card with 15" TFT monitor (299 / 30-03-02)
17.		Lenovo Desktop PCs (core2duo) black color = 05 systems (2009)

11. TV Equipment (page 740)

1.	CRTV-1	Uptron 50 Cms monochrome TV Model UV-152
2.	CRTV-2	Color TV Demonstration Kit with Pattern Generator
3.	CRTV-3	Satellite receiver trainer (44 / 07-01-04)
4.	CRTV-4	Digital Video & Image Capturing Equipment (160 / 31-03-04)

12. Air-conditioners & Voltage Stabilizers (page 744)

1	CRS-1	Logic State 3-KVA Automatic Voltage Stabilizer (4/30-03-02)
2	CRS-2	Logic State 5-KVA Automatic Voltage Stabilizer (122 / 22-03-04)
3	CRS-3	Air-conditioner 1.5 ton capacity (Voltas) with Bluebell 4-KVA AVS

13. Microwave Equipments and Components (page 747-748)

S.No.	Inv. No.	Specifications
1	CRMW-1	Klystron Power Supply
2	CRMW-2	VSWR Meter
3	CRMW-3	<u>Microwave Components (20 Nos) as detailed below:-</u> <ol style="list-style-type: none"> i. Klystron Mount ii. Klystron Tube iii. Wave-guide stand iv. Multi-hole Directional Coupler v. Frequency meter vi. Variable Attenuator vii. Circulator with matched termination viii. Liquid Dielectric cell with water jacket & E-plane bend ix. Solid Dielectric cell with Reflector x. Precision Screw Tuner with Micro-meter xi. Precision E -H Tuner with Micro-meter xii. Movable Short with Micro-meter xiii. Slide Termination xiv. BNC Cable with BNC male-connectors at both ends xv. Wave-guide Phase-shifter xvi. Matched E – H Tee xvii. Slotted section without probe & with Probe carriage xviii. Tunable Probe without Crystal xix. Crystal for Tunable probe xx. Detector mount
4	CRMW-4	Klystron Power Supply
5	CRMW-5	Klystron Tube – 2K25
6	CRMW-6	X – Band VSWR Meter
7	CRMW-7	Advance Micro-strip Trainer Kit, Model AMTK – 9000C, with the following 23 accessories:- <ol style="list-style-type: none"> I. LPF = 02 II. BPF = 02 III. BSF = 02 IV. Ring Resonator = 02 V. Branch-line Coupler = 02 VI. Hybrid Coupler = 02 VII. Parallel-coupled Line coupler = 02 VIII. Power Divider – I (without chip) = 01 IX. Power Divider – II (with chip) = 01 X. Patch Antenna – I, PA-955C = 02 XI. Patch Antenna – II, PA-960C = 02 XII. Amplifier, AMP-965C = 01 XIII. 50-Ohms Transmission Line MTL 975C = 02 <p style="text-align: center;">-----</p>
		Total = 23 accessories in 13 groups

14. Trainer-Kits / Bread-board Systems (page 752-760)

S.No.	Inv. No.	Specifications
1	CRT-1	Pacific Bread Board Trainer Model PDC-20
2	CRT-2	Pacific Bread Board Trainer Model PDC-20
3	CRT-3	Pacific Amplitude Modulator / Demodulator Model AET-14
4	CRT-4	Pacific Bread Board Trainer Model PDC-20
5	CRT-5	Pacific Bread Board Trainer Model PDC-20
6	CRT-6	Pacific Bread Board Trainer Model PDC-20
7	CRT-7	Pacific Bread Board Trainer Model PDC-20
8	CRT-8	Analog and Digital IC Trainer
9	CRT-9	LAN Trainer (Quarbz)
10	CRT-10	Sampling and Re-construction Trainer, ST - 2101
11	CRT-11	Delta, Adaptive delta & Sigma delta modulation trainer, ST – 2105
12	CRT-12	Delta, Adaptive delta & Sigma delta modulation trainer, ST – 2105
13	CRT-13	PAM, PPM & PWM Trainer, ST – 2110
14	CRT-14	AM DSB / SSB Transmitter Trainer, ST – 2201
15	CRT-15	AM DSB / SSB Receiver Trainer, ST-2202
16	CRT-16	AM DSB / SSB Receiver Trainer, ST-2202
17	CRT-17	FM Transmitter & Receiver Trainer, ST-2203
18	CRT-18	PRBS Noise Generator, PRBS-100 (Sigma)
19	CRT-19	Harmonic Analyzer Trainer, COM-118 (Sigma)
20	CRT-20	Super-heterodyne Radio Receiver
21	CRT-21	Super-heterodyne Radio Receiver
22	CRT-22	Harmonic Analyzer Trainer, COM-118 (Sigma)
23	CRT-23	Blue – Tooth Trainer Development Kit (108 / 04-09-2004)
24	CRT-24	SSB Modulation & Demodulation Trainer, Make Trinity, Model CS-1202
25	CRT-25	SSB Modulation & Demodulation Trainer, Make Trinity, Model CS-1202
26	CRT-26	DSB Modulation & Demodulation Trainer Kit, Make Trinity, Model CS-1203
27	CRT-27	DSB Modulation & Demodulation Trainer Kit, Make Trinity, Model CS-1203
28	CRT-28	Frequency Modulation & Demodulation Trainer Kit, Make Trinity, Model CS-1204
29	CRT-29	Frequency Modulation & Demodulation Trainer Kit, Make Trinity, Model CS-1204
30	CRT-30	Analog Signal Sampling and Re-construction Kit, Make Trinity, Model CS-1218
31	CRT-31	Data Format Generation and Carrier Modulation Transmitter Kit, Trinity Model CS-1223Tx
32	CRT-32	Data Re-formatting and Carrier Demodulation Receiver Kit, Trinity Model CS-1223Rx
33	CRT-33	Pulse-position Modulation, Trinity model CS-1207
34	CRT-34	PCM Modulation kit, Trinity model CS-1211Tx
35	CRT-35	PCM Demodulation kit, Trinity model CS-1211Rx
36	CRT-36	Differential PSK modulation / demodulation trainer kit (54 / 05-03-08)
37	CRT-37	QPSK modulation / demodulation trainer kit (Kitek) (54 / 05-03-08)
38	CRT-38	Frequency modulation / demodulation trainer kit model BCT-02 (54 / 05-03-08)
39	CRT-39	PWM modulation / demodulation trainer kit model BCT-07/08 (54 / 05-03-08)
40	CRT-40	Differential PCM modulation / demodulation trainer kit (54 / 05-03-08)
41	CRT-41	Data Format Generation and Carrier Modulation Transmitter Kit, Trinity Model CS-1223Tx (77/11-04-09)
42	CRT-42	Data Re-formatting and Carrier Demodulation Receiver Kit, Trinity Model CS-1223Rx (77/11-04-09)
43	CRT-43	ASK modulation / demodulation trainer kit, Trinity model CS-1215 (79 / 30-04-09)
44	CRT-44	VLSI Development Platform with Wireless Communication kit, ST-101 (100 / 30-03-10)
45	CRT-45	VLSI Development Platform with Wireless Communication kit, ST-101 (100 / 30-03-10)

15. Radio Lab. Software (758)

CRRL – 1 Radio Lab Software (49 / 15-03-2004) 102 (7)

16. Equipments transferred from DRS to Commn Lab.

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17. Equipments of WNC placed in Commn Lab.

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2.			
3.			
4.			

18 - Old Equipments

S.No.	Inv. No.	Equipment Name & Specifications
1	ECMG-10	TecQuipment Waveform Generator E15
2	ECMT-10	H. Powertronix TV Demonstrator type TV 77
3	ECMP-5	H. Powertronix (0-30V/0.5A) RPS (S800)
4	ECMI-1	Systronics CVT Type CVT-250, S.No 415
5	ECMI-3 (b)	Beltronix Low-cast Pulse Generator
6	ECMI-3 (c)	Beltronix 5.0 V Power Suuply
	ECML - 1	TecQuipment E15i Transmission Lines with the following accessories:-
7		(a) 50 Ohms Cable Drum
		(b) 75 Ohms Cable Drum
		(c) Connecting Leads
8	ECMD-1	TecQuipment E15h Super-heterodyne Radio Receiver
9	ECMA – 2	TecQuipment E15L Advanced Antenna System

EQUIPMENTS AT A GLANCE

S.No.	Equipments.	Quantity
1.	CROs	
2.	DSOs	
3.	Signal Generators	
4.	Multimeters	
5.	Power supplies	
6.	UPS	
7.	Counters	
8.	Optical Fiber kits	
9.	Digital Switching	
10.	Spectrum Analyzers	
11.	Radar	
12.	TV Equipments	
13.	PCs	
14.	Computers peripherals	
15.	Stabilizers	
16.	Microwave / Micro-strip trainers	
17.	Modulation/Demodulation & other Trainer kits	
18.	Bread board systems	
19.	Radio Lab Softwares	
20.	Equipments received from DRS Lab	
21.	Equipments of WNC placed in commn lab.	
22.	Old Equipments still in use	